

Abstract

A method for monitoring the health of a system comprises performing at each of a plurality of times the steps of:

- 5        constructing a condition signature from a plurality of condition indicators including (a) a plurality of vibration measurements acquired from the system or (b) one or more vibration measurements and one or more performance parameter measurements acquired from the system;
- 10       predicting a normal signature from a model defining one or more inter-dependencies between said condition indicators, the normal signature corresponding to the condition signature for a healthy system;  
         comparing the condition signature with the normal
- 15       signature; and  
         registering an event if the condition signature differs from the normal signature by more than a predetermined threshold.

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